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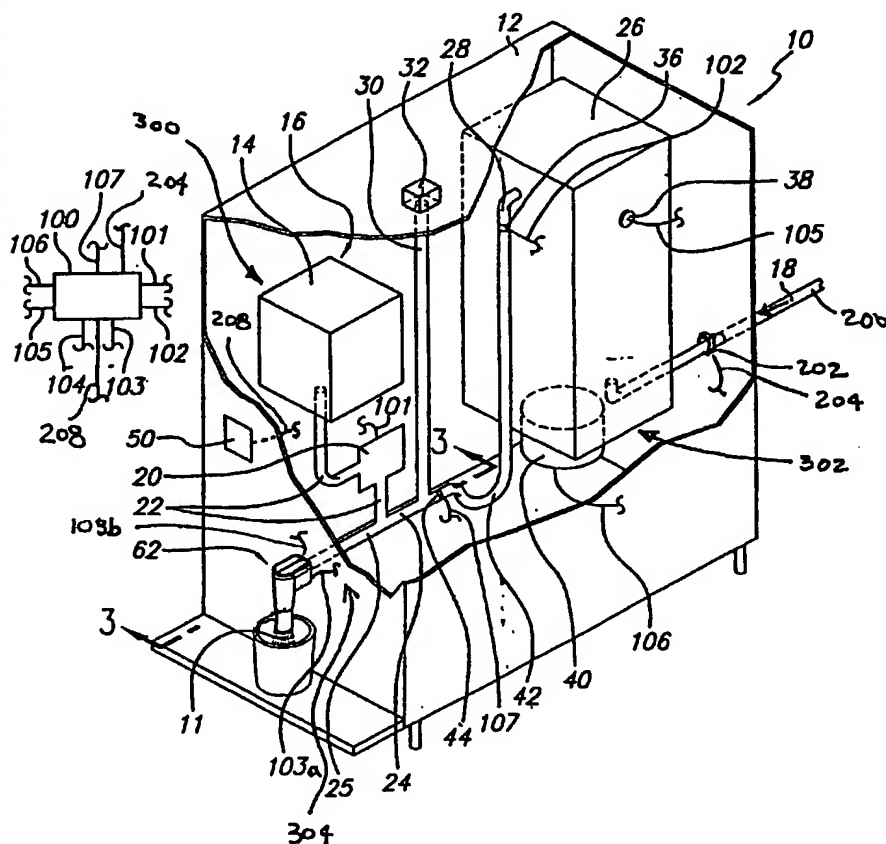
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*[Continued on next page]*

**(54) Title: LIQUID BEVERAGE CONDUCTIVITY DETECTING SYSTEM**



**(57) Abstract:** The present disclosure relates to a system, method and apparatus for controlling the flavor of a beverage produced from a concentrate, based on the conductivity of the beverage being produced. The apparatus includes a conductivity sensor which provides a controller with real time conductivity data from the beverage being served. The controller is capable of comparing the real time conductivity data to a preprogrammed range of conductivity readings and adjusting a variable speed pump to keep the real time conductivity data within the preprogrammed range.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG,

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# INTERNATIONAL SEARCH REPORT

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PCT/US03/25292

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B67D 5/08

US CL : 222/1, 52, 56, 64, 129.1, 145.1, 145.5, 145.6, 146.1, 146.2 146.6

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 222/1, 52, 56, 64, 129.1, 145.1, 145.5, 145.6, 146.1, 146.2 146.6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,349,852 B1 (FORD) 26 February 2002 (26.02.2002), See column 5, lines 63-67 onto column 12, lines 1-44.	1-6
X,P	US 6,446,835 B1 (FORD) 10 September 2002 (10.09.2002), See column 5, lines 41-67 onto column 12, lines 1-46.	1-6
A	US 6,387,424 B2 (FUNK) 14 May 2002 (14.05.2002), See Figures 1-3.	1-6
A	US 6,240,829 B1 (McGARRAH) 05 June 2001 (05.06.2001), See see Figures 1 and 3.	1-6

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Further documents are listed in the continuation of Box C.

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See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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